

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/000111

A. CLASSIFICATION OF SUBJECT MATTER												
Int. Cl. ⁷ : C07D 487/22, C08G 61/12, H01L 31/18												
According to International Patent Classification (IPC) or to both national classification and IPC												
B. FIELDS SEARCHED												
Minimum documentation searched (classification system followed by classification symbols)												
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched												
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN substructure search; STN File WPIDS #Keywords: Porphyrin, Phthalocyanine, Chlorophyll, Polymer?, Conduct?, Thiophene, Pyrrole, Furan, Aniline, Chloranil												
C. DOCUMENTS CONSIDERED TO BE RELEVANT												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
X, Y	Derwent Abstract Accession No. 2001-234912/24, Class A26 B04 D16 E14 L03 (A41 A85 E13), WO 200112699-A1 (UNIV FOURIER JOSEPH) 22 February 2001 See whole abstract	1-3, 5, 6-8, 16-19, 21-24, 33, 36-38										
Y	Derwent Abstract Accession No. 93-137471/17, Class S06 JP 05072762-A (MATSUSHITA ELEC IND CO LTD) 26 March 1993 See whole abstract	36, 38, 41, 47										
Y	Derwent Abstract Accession No. 93-137483/17, Class S06 JP 05072777-A (MATSUSHITA ELEC IND CO LTD) 26 March 1993 See whole abstract	36, 38, 41, 47										
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex												
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention											
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone											
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art											
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family											
"P" document published prior to the international filing date but later than the priority date claimed												
Date of the actual completion of the international search 3 March 2004		Date of mailing of the international search report 10 MAR 2004										
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Derwent Abstract Accession No. 93-169909/21, JP 05100446-A (MATSUSHITA ELEC IND CO LTD) 23 April 1993 See whole abstract	36, 38, 41, 47
X	STN File CA, Abstract 138:169991, & D. F. SHI et al., Tetrahedron Letters (2002), 43 (51), 9341-9342 Abstract & CAS Registration No. 189193-81-5	17
X	STN File CA, Abstract 138:79883, & K. M. KADISH et al., Inorganic Chemistry (2002), 41 (25), 6673-6687 Abstract & CAS Registration Nos. 481693-97-4, 481694-06-8, 481694-17-1, 481694-27-3, 481693-79-2, 481693-89-4, 481693-65-6, 481693-70-3	17, 36-41
X	STN File CA, Abstract 136:355747, & G. L. MORETTO et al., Modern Physics Letters B (2001), 15 (28 & 29), 1411-1418 Abstract & CAS Registration Nos. 418327-07-8, 421596-88-5	1, 6, 36-41
X	STN File CA, Abstract 136:223185, & P. BHYRAPPA et al., Chemical Physics Letters (2001), 349 (5,6), 399-404 Abstract & CAS Registration Nos. 401899-45-4, 401899-46-5, 401899-68-1, 401899-70-5, 401899-72-7, 401899-74-9, 401899-61-4, 401899-63-6, 401899-65-8, 401899-76-1, 401899-87-4, 401899-90-9, 401913-14-2, 401899-85-2	17
X	STN File CA, Abstract 136:53617, & B. VAZ et al., Tetrahedron Letters (2001), 42 (42), 7409-7412 Abstract & CAS Registration Nos. 382138-84-3, 382138-85-4	17
X	STN File CA, Abstract 136:19977, & F. HIROYUKI, Japanese Patent JP 2001342190 Abstract & CAS Registration Nos. 259816-24-5, 259816-25-6, 259816-27-8, 259816-28-9, 259816-29-0, 259816-30-3, 259816-31-4, 260252-06-0, 260252-07-1, 378784-69-1,	17
X	STN File CA, Abstract 133:276369, & J. D. CRAPO et al., US Patent US 6,127,356 Abstract & CAS Registration No. 299398-45-1	17
X	STN File CA, Abstract 132:101945, & A. K. BURRELL et al., Journal of Inclusion Phenomena and Macrocyclic Chemistry (1999), 35 (1-2), 185-190 Abstract & CAS Registration No. 254443-78-2	1, 6, 8, 22, 24

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C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	STN File CA, Abstract 130:245642, & W. J. BELCHER et al., Tetrahedron (1999), 55 (8), 2401-2418 Abstract & CAS Registration Nos. 163779-31-5, 221233-20-1, 221233-15-4, 221233-27-8, 163779-30-4, 221233-00-7	1, 6, 8, 22, 24

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/000111

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
WO	0112699	EP	1203047	FR	2798145	FR	2798146
JP	05072762		NONE				
JP	05072777		NONE				
JP	05100446		NONE				
JP	2001342190		NONE				
US	6127356	AU	63870/96	AU	79763/94	CA	2174236
		CA	2223407	EP	0723398	EP	0831891
		US	5747026	US	5994339	US	6583132
		US	2004019031	WO	9510185	WO	9640223
END OF ANNEX							